



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/058,840	01/28/2002	Hiroshi Yamamoto	SCEIYO 3.0-112	3658
530	7590	10/19/2005	EXAMINER	
LERNER, DAVID, LITTENBERG, KRUMHOLZ & MENTLIK 600 SOUTH AVENUE WEST WESTFIELD, NJ 07090			KIM, CHONG R	
			ART UNIT	PAPER NUMBER
			2623	

DATE MAILED: 10/19/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

**SUPPLEMENTAL**  
**Notice of Allowability**

Application No.

10/058,840

Examiner

Charles Kim

Applicant(s)

YAMAMOTO, HIROSHI

Art Unit

2623

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to submissions recieved on May 25, 2005.
2. ☒ The allowed claim(s) is/are 1,2,5-9,11-12,15,17-19,21-22,25-27,29,31,32,35,37-39,41,43-45 (renumbered as claims 1-29 accordingly).
3. ☒ The drawings filed on 31 January 2005 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☒ Other 90C.



UNITED STATES DEPARTMENT OF COMMERCE

U.S. Patent and Trademark Office

Address: COMMISSIONER FOR PATENTS

P.O. Box 1450

Alexandria, Virginia 22313-1450

APPLICATION NO./ CONTROL NO.	FILING DATE	FIRST NAMED INVENTOR / PATENT IN REEXAMINATION	ATTORNEY DOCKET NO.
---------------------------------	-------------	---	---------------------

10/058.840 01/28/2002 Hiroshi Yamamoto SCEIYO 3.0-112

EXAMINER

KIM, CHONG R

ART UNIT	PAPER
----------	-------

2623 10112005

DATE MAILED:

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner for Patents

The current notice of allowance replaces the previous notice of allowance mailed on July 14, 2005 because the amendment to the title filed on January 31, 2005 by the applicant was not entered. The amendment to the title has now been entered so that the title reads "AN IMAGE PROCESSING METHOD FOR GENERATING THREE-DIMENSIONAL IMAGES ON A TWO-DIMENSIONAL SCREEN."

The Issue Fee and Publication Fee due date has been reset to three months from the mailing date of the current notice of allowance.

ck

## **DETAILED ACTION**

### ***Reasons for Allowance***

1. The following is an examiner's statement of reasons for allowance: With regards to claims 1, 11, 21, 31, and 41, the essential difference from the prior art is retrieving a predetermined data section expressing an edge in a first image using Laplacean filtering, and retrieving a coefficient value from a predetermined table using the predetermined data section as an index, and synthesizing the first image with a second image (that is a blurred version of the first image) using the coefficient value. These features in combination with the other elements of the claim and the base claim are not disclosed or suggested by the prior art of record.

With regards to claim 43, the essential difference from the prior art is synthesizing an image with a blurred version of the image using a weighted second data structure, wherein the weighted second data structure is based on a gradated field in a first data structure, a second data structure that associates respective luminance values (determined from the first data structure) with pixels in the image. These features in combination with the other elements of the claim and the base claim are not disclosed or suggested by the prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

***Citation of Relevant Prior Art***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- a. Takeuchi U.S. Patent No. 6,409,598 discloses a method of synthesizing an image with a blurred version of the image based on a predetermined coefficient.
- b. Jeffers et al. U.S. Patent Application Publication No. 2002/0027617 discloses a opacity lookup table that is indexed based on a color component (plane) of an image (figure 2).
- c. Haneda et al. U.S. Patent No. 6,057,866 discloses the retrieves a predetermined data section of an image using Laplacean filtering and processes the image based on the predetermined section.

***Contact Information***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Charles Kim whose telephone number is 571-272-7421. The examiner can normally be reached on Mon thru Thurs 8:30am to 6pm and alternating Fri 9:30am to 6pm.

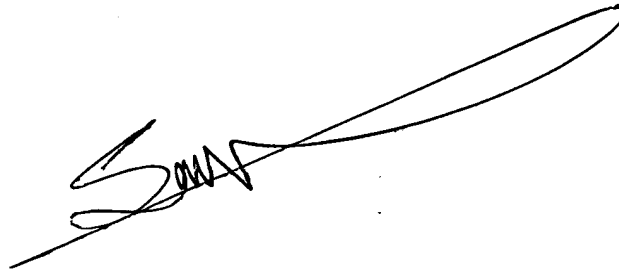
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jingge Wu can be reached on 571-272-7429. The fax phone number for the organization where this application or proceeding is assigned is 571-272-8300.

Art Unit: 2623

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ck

October 11, 2005

A handwritten signature in black ink, appearing to read 'SAMIR AHMED', with a long, sweeping horizontal stroke extending to the right.

**SAMIR AHMED  
PRIMARY EXAMINER**

Application No.: 10/058,840

Docket No.: SCEI 3.0-112

IN THE SPECIFICATION

Please amend the title to read as follows:

AN IMAGE PROCESSING METHOD FOR GENERATING THREE-DIMENSIONAL  
IMAGES ON A TWO-DIMENSIONAL SCREEN

OK  
to  
ENTER

OK  
10/13/05